WHAT IS CLAIMED IS:

1. A circuit for recovering a clock signal in a USB (universal serial bus) receiver, the circuit comprising:

a phase detector for detecting a phase difference between data received from a USB transmitter and a recovery clock signal and generating a first control signal indicative of a detected phase difference;

a bidirectional shift register for outputting a second control signal in response to the first control signal;

a multiphase clock signal generator for processing a receiver clock signal of the USB receiver, wherein the receiver clock signal is the same as a transmitter clock signal of the USB transmitter, to generate a plurality of phase clock signals each having the same frequency as the receiver clock signal and a different phase offset from the phase of the receiver clock signal; and

a phase selector responsive to the second control signal for selecting one of the plurality of phase clock signals and outputting the selected phase clock signal as a recovery clock signal.

2. The circuit of claim 1, wherein the plurality of phase clock signals comprise first through N-th phase clock signals, wherein the different phase offsets of the first through N-th phase clock signals are about (360/N)*I degrees, where N is an integer, and I is an integer equal to or greater than 0 and equal to or less than N-1.

- 3. The circuit of claim 2, wherein N is an integer equal to or greater than 2 and equal to or less than 8.
 - 4. The circuit of claim 2, wherein N is 8.
- 5. The circuit of claim 1, wherein the bidirectional shift register is shifted in a first direction when the first control signal is at a first predetermined level, and shifted in a second direction when the first control signal is at a second predetermined level.
- 6. The circuit of claim 1, wherein the multiphase clock signal generator comprises a multiphase analog PLL (phase locked loop) circuit.
- 7. The circuit of claim 1, further comprising a clock signal generator for generating the receiver clock signal.
- 8. The circuit according to claim 7, wherein the clock signal generator comprises:

a crystal oscillator for generating a clock signal having a predetermined frequency; and

a frequency multiplier for multiplying the frequency of the clock signal to generate the receiver clock signal.

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9. A method for recovering a clock signal in a USB (universal serial bus) receiver, the method comprising the steps of:

receiving a receiver clock signal of the USB receiver having a frequency equal to the frequency of a transmitter clock signal of a USB transmitter, and generating a plurality of phase clock signals from the receiver clock signal, wherein each phase clock signal has the same frequency as the receiver clock signal and a different phase offset from the phase of the receiver clock signal;

detecting a phase difference between data received from the USB transmitter and a recovery clock signal and generating a first control signal indicative of a detected phase difference;

outputting a second control signal from a bidirectional shift register in response to the first control signal; and

selecting one of the plurality of phase clock signals in response to the second control signal and outputting the selected phase clock signal as a recovery clock signal.

10. The method of claim 9, wherein the step of generating a plurality of phase clock signals comprises the step of generating first through N-th phase clock signals, wherein the different phase offsets of the first through N-th phase clock signals are about (360/N)*I degrees, where N is an integer, and I is an integer equal to or greater than 0 and equal to or less than N-1.

- 11. The method of claim 10, wherein N is an integer equal to or greater than 2 and equal to or less than 8.
 - 12. The method of claim 10, wherein N is 8.

13. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform method steps for recovering a clock signal in a communications system comprising a transmitter and receiver, the method steps comprising:

receiving a receiver clock signal of the receiver having a frequency equal to the frequency of a transmitter clock signal of the transmitter, and generating a plurality of phase clock signals from the receiver clock signal, wherein each phase clock signal has the same frequency as the receiver clock signal and a different phase offset from the phase of the receiver clock signal;

detecting a phase difference between data received from the transmitter and a recovery clock signal and generating a first control signal indicative of a detected phase difference;

outputting a second control signal from a bidirectional shift register in response to the first control signal; and

selecting one of the plurality of phase clock signals in response to the second control signal and outputting the selected phase clock signal as a recovery clock signal.

- 14. The program storage device of claim 13, wherein the instructions for generating a plurality of phase clock signals comprise instructions for generating first through N-th phase clock signals, wherein the different phase offsets of the first through N-th phase clock signals are about (360/N)*I degrees, where N is an integer, and I is an integer equal to or greater than 0 and equal to or less than N-1.
- 15. The program storage device of claim 13, wherein the method steps are implemented in a USB (universal serial bus) communications system.
 - 16. A communications system, comprising:

a transmitter; and

a receiver comprising means for recovering a clock signal, wherein the means for recovering a clock signal comprises:

phase detecting means for detecting a phase difference between data received from the transmitter and a recovery clock signal and generating a first control signal indicative of a detected phase difference;

bidirectional shift register means for outputting a second control signal in response to the first control signal;

multiphase clock signal generating means for generating a plurality of phase clock signals each having the same frequency as a receiver clock signal of the receiver and a different phase offset from the phase of the receiver clock signal; and

selecting means responsive to the second control signal for selecting one of the plurality of phase clock signals and outputting the selected phase clock signal as a recovery clock signal.

- 17. The system of claim 16, wherein the communications system comprises a USB (universal serial bus) communications system.
- 18. The system of claim 16, wherein the plurality of phase clock signals comprise first through N-th phase clock signals, wherein the different phase offsets of the first through N-th phase clock signals are about (360/N)*I degrees, where N is an integer, and I is an integer equal to or greater than 0 and equal to or less than N-1.
- 19. The system of claim 18, wherein N is an integer equal to or greater than 2 and equal to or less than 8.
 - 20. The system of claim 18, wherein N is 8.